

scintillating material can be stimulated to scintillate above background by at least one of the adsorbed molecular species, but is not stimulated to scintillate above background by any molecular species which is not adsorbed;

- c) measuring the scintillation emitted by the scintillating material;

wherein the adsorption of the molecular species to the scintillating material is due to a chemical or biochemical transformation of one of said molecular species into another of said molecular species; and

- d) determining the progress of or degree of completion of the molecular transformation;

wherein the reaction product of the chemical or biochemical transformation binds to the scintillating material, and at least one of the reactants of said chemical or biochemical transformation does not bind to the scintillating material.

8. (Three times amended) The method of claim 1, wherein at least one of the at least two molecular species provided is a substrate for an enzyme-catalyzed reaction or a series of enzyme-catalyzed reactions, another of the at least two molecular species is a product of the enzyme-catalyzed reaction or series of enzyme-catalyzed reactions.

10. (Twice amended) The method of claim 8, wherein the enzyme catalyzed reaction is selected from the group consisting of kinase catalyzed reactions, lipase catalyzed reactions, and tRNA transferase catalyzed reactions.

REMARKS

Included herewith is a petition for a three-month extension of time and authorization to charge the requisite fee to an appropriate deposit account. The time for response is now set to expire on September 12, 2002.

Appended hereto is a marked up version of the claims showing the changes made.

Claims 21-28 have been withdrawn from consideration pursuant to a restriction requirement. Claims 21-28 have been accordingly cancelled, without prejudice.

Claims 11-18 and 20 have been withdrawn from consideration as being drawn to a non-elected species. Although claims 11-18 and 20 are presently withdrawn from consideration, it is